

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of

Tao Tao, Mario H. Skiadopoulos, Peter L. Collins, Brian R. Murphy

Serial No. 09/459,062

Group Art Unit: 1648

Filing Date: December 10, 1999

Examiner: S. Brown

For: CONSTRUCTION AND USE OF RECOMBINANT PARAINFLUENZA VIRUSES EXPRESSING A CHIMERIC GLYCOPROTEIN

DATE OF DEPOSIT: 4/12/2002
 I HEREBY CERTIFY THAT THIS PAPER IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL, POSTAGE PREPAID ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO THE ASSISTANT COMMISSIONER FOR PATENTS, WASHINGTON, DC 20231

JEFFREY J. KING
 REGISTRATION NO. 38,515

BOX DSD

Commissioner for Patents
 Washington DC 20231

POWER TO INSPECT AND MAKE COPIES

The undersigned hereby authorizes Wayne Croteau, Christina Mraz and Doreen Watson to inspect and make copies of the file history of the above-identified application.

Date: 4/12/2002

Jeffrey J. King
 Registration No. 38,515

Woodcock Washburn LLP
 One Liberty Place - 46th Floor
 Philadelphia PA 19103
 Telephone: (215) 568-3100
 Facsimile: (215) 568-3439

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Tao Tao et al.

Serial No.: 09/459,062

Group Art Unit: 1648

Filing Date: December 10, 1999

Examiner: S. Brown

For: CONSTRUCTION AND USE OF RECOMBINANT PARAINFLUENZA VIRUSES EXPRESSING A CHIMERIC GLYCOPROTEIN

DATE OF DEPOSIT: 4/12/2002

I HEREBY CERTIFY THAT THIS PAPER IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL, POSTAGE PREPAID ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO THE BOX DSD, COMMISSIONER FOR PATENTS AND TRADEMARKS, WASHINGTON, DC, 20231.

TYPED NAME: Jeffrey J. King
REGISTRATION NO.: 38,515

RECEIVED
TECH CENTER 1600/2900
02 APR 16 PM 1:51

BOX DSD
Commissioner for Patents
Washington, DC 20231

**ESTABLISHMENT OF RIGHT OF ASSIGNEE TO TAKE ACTION
AND
REVOCATION AND POWER OF ATTORNEY**

Dear Sir:

The undersigned is empowered to act on behalf of the assignee below (the "Assignee"). The original assignment was recorded on April 5, 2000 at Reel 010730, Frames 0728-0731. A copy of that submission is attached. This Assignment represents the entire chain of title of this invention from the Inventors Tao Tao, Mario H. Skiadopoulos, Peter L. Collins, and Brian R. Murphy to the Assignee.

I declare that all statements made herein are true, and that all statements made upon information and belief are believed to be true, and further, that these statements were made with the knowledge that willful, false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. §1001, and that willful, false statements may jeopardize the validity of the application, or any patent issuing thereon.

The undersigned hereby revokes any previous powers of attorney in the subject application, and hereby appoints the below listed registrants of National Institutes of Health Offices of Technology Transfer, 6011 Executive Boulevard, Suite 325, Rockville, MD 20852, telephone (301) 496-7056, as its agents and attorneys with full power of substitution and revocation to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected herewith. This appointment is to be to the exclusion of the inventor(s) and his/her/their attorney(s) in accordance with the provisions of 37 C.F.R. § 3.71.

<u>James C. Haight</u>	Reg. No. <u>25,588</u>
<u>David R. Sadowski</u>	Reg. No. <u>32,808</u>
<u>Jack Spiegel</u>	Reg. No. <u>34,477</u>
<u>Susan S. Rucker</u>	Reg. No. <u>35,762</u>
<u>Stephen Finley</u>	Reg. No. <u>36,357</u>
<u>Steven Ferguson</u>	Reg. No. <u>38,448</u>
<u>John Peter Kim</u>	Reg. No. <u>38,514</u>
<u>Norbert Pontzer</u>	Reg. No. <u>40,777</u>
<u>Richard U. Rodriguez</u>	Reg. No. <u>45,980</u>
<u>Marlene Shinn</u>	Reg. No. <u>46,005</u>
<u>Dale Berkley</u>	Reg. No. <u>42,319</u>
<u>Catherine M. Joyce</u>	Reg. No. <u>32,319</u>
	Reg. No. <u>40,668</u>

The National Institutes of Health Office of Technology Transfer has been duly delegated responsibility for such patent matters under the authority of the Department of Health and Human Services Secretary Louis W. Sullivan's May 21, 1991, memorandum appearing in the Friday, June 7, 1991, Federal Register Notices at Vol. 56, No. 110, pp. 26418-26419. The undersigned is authorized to exercise such authority in this matter.

Done on this 11 day of MARCH, 2002, at Rockville, Maryland.

UNITED STATES DEPARTMENT OF
HEALTH AND HUMAN SERVICES

By: Jack Spiegel
Printed Name: JACK SPIEGEL
Registration No.: 34,477
for: Dr. Jack Spiegel, Director, ^{OTT}
Office of Technology Transfer
National Institutes of Health
6011 Executive Boulevard, Suite 325
Rockville, MD 20852
Telephone (301) 496-7056
Facsimile (301) 402-0220

DHHS CASE NO. E-029-00/00



017634000340US

UNITED STATES DEPARTMENT OF COMMERCE

Patent and Trademark Office

ASSISTANT SECRETARY AND COMMISSIONER

OF PATENTS AND TRADEMARKS

Washington, D.C. 20231

JJKing

JUNE 26, 2000

PTAS

TOWNSEND AND TOWNSEND AND CREW LLP
JEFFREY J. KING
TWO EMBARCADERO CENTER, 8TH FLOOR
SAN FRANCISCO, CA 94111-3834



101338489A

UNITED STATES PATENT AND TRADEMARK OFFICE
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 04/05/2000

REEL/FRAME: 010730/0728

NUMBER OF PAGES: 4

BRIEF: ASSIGNMENT OF ASSIGNEE'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNEE:
TAO, TAO

DOC DATE: 02/25/2000

ASSIGNEE:
SKIADOPoulos, MARIO H.

DOC DATE: 02/25/2000

ASSIGNEE:
COLLINS, PETER L.

DOC DATE: 02/25/2000

ASSIGNEE:
MURPHY, BRIAN R.

DOC DATE: 02/25/2000

ASSIGNEE:
HEALTH AND HUMAN SERVICES,
GOVERNMENT OF THE UNITED STATES
OF AMERICA, AS REPRESENTED BY
THE
6011 EXECUTIVE BOULEVARD
SUITE 325
ROCKVILLE, MARYLAND 20852

SEARCHED
INDEXED
SERIALIZED
FILED
JUN 26 2000
U.S. PATENT AND TRADEMARK OFFICE
CIVIL PATENT SECTION

010730/0728 PAGE 2

SERIAL NUMBER: 09459062
PATENT NUMBER:

FILING DATE: 12/10/1999
ISSUE DATE:

PEARLENE FOSTER, PARALEGAL
ASSIGNMENT DIVISION
OFFICE OF PUBLIC RECORDS

04-28-2000

Attorney Docket No. 17634-000340US
DHHS Ref No. E-029-00/0

45.00

FORM PTO-1595
(Rev. 6-93)

101338489

U.S. Department of Commerce
Patent and Trademark Office

To the Honorable Asst. Commissioner for Patents. Please record the attached original documents or copy thereof

1. Name of conveying party(ies):

TAO TAO
MARIO H. SKIADOPoulos
PETER L. COLLINS
BRIAN R. MURPHY

Additional name(s) of conveying parties attached? Yes
 No

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other:

Execution Date: February 25, 2000

4. Application Number(s) or Patent Numbers.

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No(s): 09/459,062

B. Patent No(s):

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Jeffrey J. King
 TOWNSEND AND TOWNSEND AND CREW LLP
 Two Embarcadero Center, 8th Floor
 San Francisco, California 94111-3834
 (206) 467-9600

6. Total number of applications and patents involved 1

7. Total fee (37 CFR 3.41): ----- \$40

Enclosed Charge Fees to Deposit Account

Charge any additional fees associated with this paper or during the pendency of this application, or credit any overpayment, to deposit account.

8. Deposit account number: 20-1430

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.

Jeffrey J. King
 Name of Person Signing

3/30/00
 Date

Atty Reg. No. 38,515

Total number of pages including cover sheet, attachments and document 4

10. Change Correspondence Address to that of Part 5? Yes No

OMB No. 0651-0011 (exp. 4/94)

Do not detach this portion

Mail documents to be recorded with required cover to:

Asst. Commissioner for Patents
 Box: Assignments
 Washington, D.C. 20231

04/27/2000 TTOM11 00000267 201430 09459062

01 FC:581

40.00 CH

COPYAttorney Docket No. 17634-000340US
DHHS Ref No. E-029-00/0FCRM PTO-1595
(Rev. 6-93)Recordation Form Cover Sheet
(Patents Only)U.S. Department of Commerce
Patent and Trademark Office

To the Honorable Asst. Commissioner for Patents. Please record the attached original documents or copy thereof

1. Name of conveying party(ies):

TAO TAO
MARIO H. SKIADOPoulos
PETER L. COLLINS
BRIAN R. MURPHY

2. Name and address of receiving party(ies)

Name: THE GOVERNMENT OF THE UNITED STATES OF AMERICA, as represented by THE DEPARTMENT OF HEALTH AND HUMAN SERVICES

Internal Address:

Street Address: 6011 Executive Boulevard, Suite 325

City: Rockville State: Maryland ZIP: 20852

3. Nature of conveyance:

Assignment Merger
 Security Agreement Change of Name
 Other:

Execution Date: February 25, 2000

Additional names and addresses attached? Yes No

4. Application Number(s) or Patent Numbers.

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No(s): 09/459,062

B. Patent No(s):

Additional numbers attached? Yes No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Jeffrey J. King
TOWNSEND AND TOWNSEND AND CREW LLP
Two Embarcadero Center, 8th Floor
San Francisco, California 94111-3834
(206) 467-9600

6. Total number of applications and patents involved 1

7. Total fee (37 CFR 3.41): \$40

 Enclosed Charge Fees to Deposit Account Charge any additional fees associated with this paper or during the pendency of this application, or credit any overpayment, to deposit account.

8. Deposit account number: 20-1430

DO NOT USE THIS SPACE

9. Statement and signature.

To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.

Jeffrey J. King
Name of Person Signing3/30/00
Date

Atty Reg. No. 38,515

Total number of pages including cover sheet, attachments and document 4

10. Change Correspondence Address to that of Part 5? Yes No

OMB No. 0651-0011 (exp. 4/94)

Do not detach this portion

Mail documents to be recorded with required cover to:

Asst. Commissioner for Patents
Box: Assignments
Washington, D.C. 20231

ASSIGNMENT OF PATENT APPLICATION

JOINT

WHEREAS, Tao Tao, of 10684 Weymouth Street, #104, Bethesda, MD 20814, Mario H. Skiadopoulos, of 8303 Aqueduct Road, Potomac, MD 20854, Peter L. Collins, of 12304 Village Square, #401, Rockville, MD 20852, and Brian R. Murphy, of 5410 Tuscarawas Road, Bethesda, MD 20816, hereinafter referred to as "Assignors," are the inventors of the invention described and set forth in the below-identified application for United States Letters Patent:

Title of Invention: **CONSTRUCTION AND USE OF RECOMBINANT PARAINFLUENZA VIRUSES EXPRESSING A CHIMERIC GLYCOPROTEIN**

Filing Date: December 10, 1999

Application No.: 09/459,062 ; and

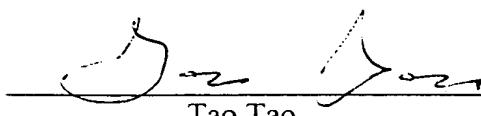
WHEREAS, THE GOVERNMENT OF THE UNITED STATES OF AMERICA as represented by the Department of Health and Human Services, of 6011 Executive Boulevard, Suite 325, Rockville, Maryland, 20852, hereinafter referred to as "ASSIGNEE," is desirous of acquiring an interest in the invention and application and in any U.S. Letters Patent and Registrations which may be granted on the same;

For good and valuable consideration, receipt of which is hereby acknowledged by Assignors, Assignors have assigned, and by these presents do assign to Assignee all right, title and interest in and to the invention and application and to all foreign counterparts (including patent, utility model and industrial designs), and in and to any Letters Patent and Registrations which may hereafter be granted on the same in the United States and all countries throughout the world, and to claim the priority from the application as provided by the Paris Convention. The right, title and interest is to be held and enjoyed by Assignee and Assignee's successors and assigns as fully and exclusively as it would have been held and enjoyed by Assignors had this Assignment not been made, for the full term of any Letters Patent and Registrations which may be granted thereon, or of any division, renewal, continuation in whole or in part, substitution, conversion, reissue, prolongation or extension thereof.

Assignors further agree that they will, without charge to Assignee, but at Assignee's expense, (a) cooperate with Assignee in the prosecution of U.S. Patent applications and foreign counterparts on the invention and any improvements, (b) execute, verify, acknowledge and deliver all such further papers, including patent applications and instruments of transfer, and (c) perform such other acts as Assignee lawfully may request to obtain or maintain Letters Patent and Registrations for the invention and improvements in any and all countries, and to vest title thereto in Assignee, or Assignee's successors and assigns.

IN TESTIMONY WHEREOF, Assignors have signed their names on the dates indicated.

Dated: 2/25/2000


Tao Tao

STATE OF MARYLAND)

) ss.

COUNTY OF MONTGOMERY)

On 2/25/00, before me, ~~Tao Tao~~ Margaret Tomczak
(insert name of notary public), personally appeared TAO TAO, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Margaret L. Tomczak
NOTARY PUBLIC

MY COMMISSION EXPIRES

MARCH 1, 2003

MARGARET L TOMCZAK
NOTARY PUBLIC

Dated: 02/25/00

Mario H. Skiadopoulos

STATE OF MARYLAND)

) ss.

COUNTY OF MONTGOMERY)

On 2/25/00, before me, Margaret Tomczak
(insert name of notary public), personally appeared MARIO H. SKIADOPoulos, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Margaret L. Tomczak
NOTARY PUBLIC

My Commission Expires: _____

MY COMMISSION EXPIRES

MARCH 1, 2003

MARGARET L TOMCZAK
NOTARY PUBLIC

Dated: 2/25/00

Peter L. Collins
Peter L. Collins

STATE OF MARYLAND)
)
COUNTY OF MONTGOMERY)

ss.

On 2/25/00, before me, Margaret Tomczak
(insert name of notary public), personally appeared PETER L. COLLINS, personally known
to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is
subscribed to the within instrument, and acknowledged to me that he executed the same in his
authorized capacity, and that by his signature on the instrument the person, or the entity upon
behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Margaret L. Tomczak
NOTARY PUBLIC

My Commission Expires: _____

MY COMMISSION EXPIRES
MARCH 1, 2003
MARGARET L TOMCZAK
NOTARY PUBLIC

Dated: 2/25/00

Brian R. Murphy
Brian R. Murphy

STATE OF MARYLAND)
)
COUNTY OF MONTGOMERY)

ss.

On 2/25/00, before me, Margaret L. Tomczak
(insert name of notary public), personally appeared BRIAN R. MURPHY, personally known
to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is
subscribed to the within instrument, and acknowledged to me that he executed the same in his
authorized capacity, and that by his signature on the instrument the person, or the entity upon
behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

Margaret L. Tomczak
NOTARY PUBLIC

My Commission Expires: _____

SE 5002456 v1

MY COMMISSION EXPIRES
MARCH 1, 2003
MARGARET L TOMCZAK
NOTARY PUBLIC

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

Tao Tao et al.

Serial No.: 09/459,062

Filing Date: December 10, 1999

Group Art Unit: 1648

Examiner: S. Brown

For: CONSTRUCTION AND USE OF RECOMBINANT PARAINFLUENZA VIRUSES EXPRESSING A CHIMERIC GLYCOPROTEIN

Commissioner for Patents
Washington, DC 20231RECEIVED
TECH CENTER 1600/2900
02 APR 16 PM 1:51ASSOCIATE POWER OF ATTORNEY

Sir:

The undersigned attorney of record, pursuant to the provisions of 37 C.F.R. §§ 1.33 and 1.34, and M.P.E.P. §402.02, hereby appoints the registrants of Woodcock Washburn LLP, One Liberty Place, 46th Floor, Philadelphia, Pennsylvania 19103, telephone (215) 568-3100, as its agents and attorneys to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected herewith.

Done on this 11 day of MARCH, 2002, at Rockville, Maryland.

UNITED STATES DEPARTMENT OF
HEALTH AND HUMAN SERVICESBy: Jack SpiegelPrinted Name: JACK SPIEGELRegistration No.: 39477

for: Dr. Jack Spiegel, Director, DTDT
Office of Technology Transfer
National Institutes of Health
6011 Executive Boulevard, Suite 325
Rockville, MD 20852
Telephone (301) 496-7056
Facsimile (301) 402-0220

DHHS CASE NO. E-029-00/00

54733-1